

CURRICULUM VITAE/BIBLIOGRAPHY

Thomas Brott, M.D.

1. PERSONAL INFORMATION

1. Place of Birth:
2. Citizenship:

2. PRESENT ACADEMIC RANK AND POSITION

1. Professor of Neurology
Mayo Medical School, Rochester, Minnesota
2. Consultant, Department of Neurology
Mayo Clinic, Jacksonville, Florida
3. Consultant, Neurological Devices Panel
US Food and Drug Administrations

3. EDUCATION

1. College/University

- 1965-1969 Harvard College, A.B. 1969, cum laude in general studies
1969-1970 Harvard University Graduate School of Arts and Sciences, Special Student

2. Medical School

- 1970-1974 University of Chicago, M.D. 1974 (AOA)

3. Internship

- 1974-1975 Medical Intern, Harvard Medical School, Beth Israel Hospital

4. Residency

- 1975-1978 Harvard Longwood Neurology Program, Beth Israel Hospital/Children's Hospital/Brigham and Women's Hospital

Clinical Fellow in Neurology, Harvard University

4. BOARD CERTIFICATIONS

American Board of Psychiatry and Neurology, 1979

5. MEDICAL LICENSURE

Florida
Kentucky

Ohio

6. HONORS/AWARDS/PATENTS

1969	Cum laude in General Studies – Harvard College
1971-1972	Urban Studies Fellowship – University of Chicago Pritzker School of Medicine
1973-1974	Representative for Division of Biological Sciences to the President’s Seminar – University of Chicago (one representative per Division)
1974	Alpha Omega Alpha
1974	Upjohn Achievement Award in Medicine – University of Chicago
1997	American Heart Association Stroke Council Award for Excellence in Clinical Stroke (National)
1997	Research Merit Award, American Heart Association, Ohio-West Virginia Affiliate
1998	Samuel Kaplan, M.D. Visionary Award for Excellence in Research, Cincinnati Division, American Heart Association
1992-2002	Best Doctors in America since listing begun in 1992, Best Doctor, Inc.

8. PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS

1978-1981	Clinical Neurologist, Cincinnati Neurological Associates, Inc., Cincinnati, Ohio; part-time at University of Cincinnati as Clinical Asst. Professor of Neurology
1981-1988	Assistant Professor of Neurology, University of Cincinnati College of Medicine
1988-1993	Associate Professor of Neurology, University of Cincinnati College of Medicine
1989-1998	Neuroscience Ph.D. Program Faculty, University of Cincinnati College of Medicine
1992-1998	Vice Chairman, Department of Neurology, University of Cincinnati College of Medicine
1993-1998	Professor, Department of Neurology, University of Cincinnati College of Medicine

9. PROFESSIONAL MEMBERSHIPS AND SOCIETIES

1976-Present	Member, American Academy of Neurology
1978-1998	Member of Medical Staff of 16 to 20 Cincinnati metropolitan area acute care hospitals
1983-1987	Stroke Task Force (Chairman), American Heart Association, Southwest Ohio Chapter (AHA-SWOC)
1983-1988	Organizer through local AHA of Annual Stroke Symposia
1983-Present	American Heart Association, Stroke Council
1985-1998	AHA-SWOC Board Member
1986-1988	AHA-SWOC Professional Education Committee (Chairman)
1987-Present	Selection as Examiner by the American Board of Psychiatry and Neurology

1988-1992	AHA, Ohio Affiliate Board Member
1989-1990	AHA-Southwest Ohio Division, Vice President
1990-1991	Member of AHA Ohio Affiliate's Executive Committee
1990-1992	President, American Heart Association, Southwestern Ohio Area
1990-Present	Member Editorial Board for Stroke Clinical Update
1990-Present	Member of American Academy of Neurology Section on Critical Care and Emergency Neurology
1990-Present	Member Editorial Board for Journal of Stroke and Cerebrovascular Disease
1991-1994	Member-at-Large of American Heart Association, Stroke Council, Executive Committee
1991-1994	Member of American Heart Association, Stroke Council, Membership and Credentials Committee
1992-1993	Nominations Chairperson, AHA Executive Committee, Cincinnati Division
1992-1998	Member American Society of Neuroimaging
1993-Present	Member of AHA Stroke Council Budget Committee
1993-Present	Member of AHA Stroke Council Executive Committee
1993-Present	Member, Board of Directors, National Stroke Association
1993-1994	Member of AHA Stroke Council Public Affairs Committee
1993-1995	Chairperson of AHA Stroke Council Membership/Credentials Committee
1993-1996	Member of AHA Stroke Council 19 th International Joint Conference on Stroke and Cerebral Circulation Program Committee
1994-1997	AHA, Stroke Council, Executive Committee, Vice Chair
1994-Present	Member of AHA Stroke Council Long Range Planning/Nominating Committee
1995-Present	Member of Editorial Board for Stroke
1995-Present	Member of the American Neurological Association
1995-1998	Member, Executive Council, Joint Section on Cerebrovascular Surgery of the American Association of Neurological Surgeons and Congress of Neurosurgical Surgeons
1995-1998	Member of AHA National Study Committee (Brain)
1997-1999	Member, AHA Awards and International Affairs Committee
1997-1999	Chairman, American Heart Association Stroke Council (National)
1998-1999	AHA, NSA Negotiation Task Force
1998-Present	Fellow, American Academy of Neurology
1999-Present	Board of Directors, AHA, Florida First Coast Division
1999-2001	Chair, AHA Long-Range Planning/Nominating Committee
2000-2001	Chair, American Stroke Association Awards Committee
2000-Present	Vice Chair, National Stroke Association
2001-Present	Fellow, American Heart Association

10. EDUCATIONAL ACTIVITIES

Education Administration

1983-1985	Faculty Practice Committee, Department of Neurology, University of Cincinnati
1985-1987	Air Care Committee, University of Cincinnati

1985-1987	Neurology/Neurosurgery Special Care Unit Planning Committee, University of Cincinnati
1985-1987	Neurology Department Liaison to Medical Library, University of Cincinnati
1986-1987	Departmental Review Committee (advisory to the Dean regarding Neurology), University of Cincinnati
1986-1989	Executive Committee, University of Cincinnati Medical Center (member-at-large)
1986-1991	Education Committee, Department of Neurology, University of Cincinnati
1987-1990	Medical Director, Neuroscience Intensive Care Unit, University of Cincinnati
1987-1998	Chairman, Research and Development Committee, Department of Neurology, University of Cincinnati
1988-1990	Special Care Unit Committee, University of Cincinnati Medical Center
1990	Chairperson, Committee for Review of the Director, Department of Surgery (University of Cincinnati College of Medicine)
1992-1998	Participant, Neuroscience Program, University of Cincinnati
1999-Present	Mayo Clinic Research Committee, Mayo Clinic Jacksonville

Bibliography

1. Full length, peer-reviewed, original articles

1. Brott TG, Thalinger K: Carotid endarterectomy in a large metropolitan area. *Stroke* 1984; 15:950-955.
2. Brott TG, Gelfand MJ, Williams CC, Spilker JA, Hertzberg JS: Frequency and patterns of abnormality detected by I-123-iodoamine emission tomography after cerebral infarction. *Radiology* 1986; 158:729-734.
3. Brott TG, Labutta RJ, Kempczinski RF: Changing patterns in the practice of carotid endarterectomy in a large metropolitan area. *JAMA* 1986; 255:2609-12.
4. Kempczinski RF, Brott TG, Labutta RJ: The influence of surgical specialty and caseload on the results of carotid endarterectomy. *J Vasc Surg* 1986;3:911-916.
5. Adams HP, Olinger CP, Barsan WG, Butler MJ, Graff-Radford NR, Brott TG, et al: A dose-escalation study of large doses of naloxone for treatment of patients with acute cerebral ischemia. *Stroke* 1986;17:404-409.
6. Brott T, Mandybur T: Case-control study of clinical outcome following aneurysmal subarachnoid hemorrhage. *Neurosurgery* 1986;19:891-895.
7. Brott T, Thalinger K, Hertzberg V: Hypertension as a risk factor for spontaneous intracerebral hemorrhage. *Stroke* 1986;17:1078-1083.
8. Cerebral Embolism Study Group: Cardioembolic stroke, early anticoagulation, and brain hemorrhage. *Arch Int Med* 1987;147:636-640.

9. Adams HP, Olinger CP, Biller J, Brott TG, Barsan WG, Marler JR, et al: Comparison of admission serum glucose concentration with neurologic outcome in acute cerebral infarction. *Stroke* 1988;19:455-458.
10. Timerding BL, Barsan WG, Hedges JR, Brott TG, et al: Stroke patient evaluation in the emergency department before pharmacologic therapy. *Am J Emerg Med* 1989;7:11-15.
11. Bienenfeld D, Brott T: Capgras' syndrome following minor head trauma. *J Clin Psychiatry* 1989;50:68-69.
12. Brott TG, Adams HP, Olinger CP, et al: Measurements of acute cerebral infarction: a clinical examination scale. *Stroke* 1989;20:864-870.
13. Brott TG, Marler JR, Olinger CP, et al: Measurements of acute cerebral infarction: lesion size by computed tomography. *Stroke* 1989;20:871-875.
14. Asymptomatic carotid atherosclerosis study group: Study design for randomized prospective trial of carotid endarterectomy for asymptomatic atherosclerosis: *Stroke* 1989;20:844-849. (P.I. clinical site and director of central CT reading center)
15. Tomsick TA, Brott TG, Olinger CP, Barsan W, et al: Hyperdense middle cerebral artery sign: incidence and quantitative significance. *Neuroradiology* 1989;31:312-315.
16. Broderick JP, Brott TG, Tomsick T: Ultra early evaluation of intracerebral hemorrhage. *J Neurosurg* 1990;72:195-199.
17. Tomsick TA, Brott TG, Chambers AA, Fox AJ, et al: Hyperdense middle cerebral artery sign on CT: efficacy in detecting middle cerebral artery thrombosis. *AJNR* 1990;11:473-477.
18. Barsan WG, Olinger CP, Adams HP, Brott TG, et al: Use of high dose naloxone in acute stroke: possible side effects. *Crit Care Med* 1990;17:762-767.
19. Olinger CP, Adams Jr. HP, Brott TG, Biller J, et al: A study of high dose intravenous infusion of naloxone for the treatment of 38 patients with acute ischemic stroke. *Stroke* 1990;21:721-725.
20. North American Symptomatic Carotid Endarterectomy Trial Collaborators: Beneficial effect of carotid endarterectomy in symptomatic patients with high-grade carotid stenosis. *N Engl J Med* 1991;325:445-453. (end point reviewer)

21. Tomsick T, Brott T, Barsan W, Broderick J, Haley EC, Levy DE, Sheppard G, Spilker J: Thrombus localization with emergency cerebral computed tomography. *AJNR* 1992;13:257-263.
22. Brott T, Haley EC, Levy DE, Barsan W, Broderick J, Sheppard G, Spilker J, Kongable G, Reed R, Marler J: Urgent therapy for stroke - Part I: pilot study of tissue plasminogen activator administered within 90 minutes. *Stroke* 1992;23:632-640.
23. Haley EC, Levy DE, Brott TG, Sheppard GL, Wong MCW, Kongable GL, Torner JC, Marler JR: Urgent therapy for stroke - Part II: pilot study of tissue plasminogen activator (rt-PA) administered 90-180 minutes from onset. *Stroke* 1992;23:641-645.
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25. Broderick JP, Brott T, Tomsick T, Miller R, Huster G: Intracerebral hemorrhage is more than twice as common as subarachnoid hemorrhage. *J Neurosurg* 1992;78;2:188-191.
26. Broderick J, Talbot GT, Prenger E, Leach A, Brott T: Stroke in children within a major metropolitan area: The surprising importance of intracerebral hemorrhage. *J Child Neurology* 1993; 8:250-255.
27. Haley Jr EC, Brott TG, Sheppard GL, Barsan W, Broderick J, Marler JR, Kongable GL, Spilker J, Massey S, Hansen CA, Torner JC: Pilot randomized trial of tissue plasminogen activator in acute ischemic stroke. *Stroke* 1993; 24:1000-1004.
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30. Barsan W, Brott T, Broderick J, Haley E, Levy D, Marler J: Time of hospital presentation of patients with acute stroke. *Arch Int Med* 1993;153;2558-2561.
31. Broderick J, Brott T, Tomsick T, Leach A. Lobar hemorrhage in the elderly. The undiminishing importance of hypertension. *Stroke* 1993; 24(1):49-51.

32. Levy D, Brott T, Haley EC Jr, Marler JR: Factors related to intracranial hematoma formation in patients receiving tPA for acute, ischemic stroke. *Stroke* 1994;25:291-297.
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34. Brott T, Tomsick T, Feinberg W, Johnson C, Biller J, Broderick J, Kelly M, Frey J, Schwartz S, Blum C, Nelson JJ, Chambless L, Toole J: Baseline silent cerebral infarction in the asymptomatic carotid atherosclerosis study. *Stroke* 1994;25:1122-1129.
35. Barsan W, Brott T, Broderick J, Haley Jr, EC, Levy D, Marler J: Urgent therapy for acute stroke. Effects of a stroke trial on untreated patients. *Stroke* 1994; 25:2132-2137.
36. Lyden P, Brott T, Tilley B, Welch KMA, Mascha E, Levine S, Haley EC, Grotta J, Marler J, NINDS tPA Stroke Study Group: Improved reliability of the NIH Stroke Scale using video training. *Stroke* 1994; 25:2220-2226.
37. Broderick JP, Brott T, Tomsick T, Tew J, Duldner J, Huster G. Management of intracerebral hemorrhage in a large metropolitan population. *J Neurosurgery* 1994; 34:882-887.
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39. Special Writing Group of AHA Stroke Council: Guidelines for the management of patients with acute ischemic stroke. *Stroke* 1994; 25:1901-1914.
40. Broderick J P, Brott T G, Duldner J E, Tomsick T, Leach A: Initial and recurrent bleeding are the major causes of death following subarachnoid hemorrhage. *Stroke* 1994; 25:1342-1347.
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43. Executive Committee for ACAS. Endarterectomy for asymptomatic carotid artery stenosis. *JAMA* 1995; 273:1421-1428. (P.I. for clinical site and director of central CT reading center)

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46. Brott T, Toole JF: Surgical treatment for asymptomatic carotid artery stenosis. *Ann Intern Med* 1995;123:720-722.
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51. Shuren JE, Brott TG, Schefft BK, Houston W. Preserved color imagery in an achromatopsic. *Neuropsychologia* 1996; 34(6) 485-489.
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54. Adams HP, Jr, Brott TG, Furlan AJ, Gomex CR, Grotta J, Helgason CM, Kwiatkowski T, Lyden PD, Malrer JR, Torner J, Feinberg W, Mayberg M, Thies W: Guidelines for thrombolytic therapy for acute stroke: A supplement to the guidelines for the management of patients with acute ischemic stroke: A statement for healthcare professionals from a special writing group of the Stroke Council, American Heart Association. *Stroke* 1996; 27:1711-1718.

55. Young B, Moore W, Robertson J, Toole J, Ernst C, Cohen S, Broderick J, Dempsey R, Hosking J, and the ACAS Investigators. An analysis of the perioperative surgical mortality and morbidity of the Asymptomatic Carotid Atherosclerosis Study. *Stroke* 1996; 27:2216-2224. (P.I. for clinical site and director of central CT reading center)
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57. Brott T, Broderick J, Barsan W, Kothari R, Tomsick T, Spilker J, Khoury J: Continued bleeding during the first hours of intracerebral hemorrhage. *Stroke* 1997; 28:1-5.
58. Lower E, Broderick J, Brott T, Baughman R. Diagnosis and management of neurologic sarcoidosis. *Arch Intern Med* 1997; 157: 1864-1868.
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63. Tilley BC, Lyden PL, Brott TG, Levine SR, Welch KMA, and the NINDS rt-PA Stroke Study Group. Total quality improvement methodology reduces delays between emergency department admission and treatment of acute ischemic stroke. *Arch Neurol* 1997; 54:1466-1474.
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67. Haley EC Jr, Lewandowski C, Tilley B, and the NINDS rt-PA Stroke Study Group. Myths regarding the NINDS rt-PA Stroke Trial: Setting the record straight. *Ann Emerg Med* 1997; 30:676-682. (P.I. for most productive clinical center)
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90. Brott T, Bogousslavsky J. Treatment of acute ischemic stroke. *N Engl J Med*, 343(10):710-722, 2000.
91. Meschia JF, Brott TG, Chukwudelunzu FE, Hardy J, Brown RD Jr., Meissner I, Hall LJ, Atkinson EJ, O'Brien PC. Verifying the stroke-free phenotype by structured telephone interview. *Stroke* 2000; 31(5):1076-80.
92. Frankel MR, Morgenstern LB, Kwiatkowski T, Lu M, Tilley BC, Broderick JP, Libman R, Levine SR, Brott T and the NINDS rt-PA Stroke Study Group. Predicting Prognosis after Stroke: A Placebo Group Analysis from the National Institute of Neurological Disorders and Stroke rt-PA Stroke Trial. *Neurology*, 2000;55:952-959.
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88. Meschia JF, Brott TG, Brown RD, Cornwell K, Dodick D. Siblings With Ischemic Stroke Study: Three-Center Pilot. Journal of Stroke and Cerebrovascular Diseases 2000; 9:202.
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.....(Submitted)
95.
.....(In press)
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.....(Submitted)
97.
.....(Submitted)

4. Grants and Contracts

1. Co-Principal Investigator in NIH-NINCDS Cerebral Vascular Clinical Research Master Agreement, Technical Proposal Category II, starting date January 1, 1983.
2. Co-Principal Investigator in NIH-NINCDS Cerebrovascular Clinical Research Master Agreement, Technical Proposal Category III, starting date January 1, 1983.
3. Director of Cerebrovascular Teaching, Preventive Cardiology Academic Award (NIH-NHLBI #5 K07 HL01474, Ralph C. Scott, M.D., Program Director) 7/1/85 - 6/30/90, \$567,714.
4. Co-Principal Investigator in NIH-NINCDS Naloxone Contract, Late Phase I and Phase II studies of naloxone in the treatment of acute cerebral infarction, completed May, 1986, \$440,000.
5. Principal Investigator at the University of Cincinnati for the Multi-center Controlled Study of the use of Pentastarch v. Standard Medical Treatment in the Management of Acute Cerebral Infarction, for January 1 - June 30, 1986,
6. Co-Investigator with Dr. Michael Gelfand in the AHA funded project titled "Use of 5% CO₂ Inhalation and I-123 Iodoamine Single Photon Tomographic Imaging in Patients with Transient Ischemic Attack", 1986 - 1987,
7. Co-Investigator for Knoll Pharmaceutical Co. - Protocol A-2-IV, "Double-blind Randomized Controlled Study to Assess the Safety and Efficacy of Intravenous Ancrod for Acute or Progressing Cerebral Infarction," Principal Investigator: Charles Olinger, M.D., 1986-87,

8. Principal Investigator for funded NIH-NINCDS Contract, NO1NS3-2324, T.O.#2, "Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Stroke," 9/15/86 - 11/15/89, \$545,029.
9. Principal Investigator at the University of Cincinnati for funded NIH/NINCDS multicenter grant to study Asymptomatic Carotid Atherosclerosis Study (ACAS), in collaboration with John M. Tew, Jr., M.D., 3/1/87 - 2/29/94 (approximately)
10. Co-Investigator (Principal Neurologist) for funded VA Cooperative Study "Stroke Prevention and Non-Valvular Atrial Fibrillation", 1987 - 1988, \$179,000.
11. Principal Investigator for funded NIH-NINCDS Grant, NS26933-02, "Ultra-Early Evaluation of Human Spontaneous Intracerebral Hemorrhage," 12/1/88 - 11/30/91, \$357,516.
12. Co-Investigator in the American Heart Association's "Intracranial Hemorrhage in Cincinnati," 7/1/89 - 6/30/91,
13. Co-Investigator in the funded study of "Double-Blind, Randomized, Placebo Controlled Parallel Study of Ancrod" under the direction of Dr. Olinger, 9/15/89 - 9/14/90,
14. Principal Investigator for multi-center study, "Evaluation of Intrathecal Tissue Plasminogen Activator in the Prevention of Cerebral Vasospasm after Subarachnoid Hemorrhage," funded by Genentech 989-1990.
15. Endpoint Adjudicator (one of four) for NIH/NINCDS Grant, North American Symptomatic Carotid Endarterectomy Trial (NASCET), 1989 - 1998.
16. Principal Investigator for Genentech funded study "Evaluation of Intra-arterial tPA Early in the Course of Acute Stroke," 1/1/90 - 12/31/90,
17. Principal Investigator for the American Heart Association's "Stroke Rehabilitation: Home vs Hospital-Based Outpatient Department," 1990-1991,
18. Co-Investigator for Hoechst-Roussel Pharmaceutical's "A Multi-Center, Double-Blind, Placebo Controlled Investigation of Efficacy and Safety of Oral Trental^R (Pentoxifylline, BL 191) in Patients with Multi-Infarct Dementia, December 1989-July 1991,
19. Co-Investigator for NIH Grant "Development of 99M-Tc Brain Imaging Agents for Use with SPECT." June 1, 1990 to February 28, 1991, \$149,256.
20. Principal Investigator for NIH-NINDS contract, #NO1-NS-0-2374, "Phase II-B Randomized Double Blind Controlled Study of Tissue Plasminogen Activator for Acute Ischemic Stroke," \$830,241 (1990-1992).

21. Principal Investigator for NIH-NINDS grant, #2 RO1 NS26933-04, "Ultra-Early Evaluation of Human Spontaneous Intracerebral Hemorrhage," \$663,482, 12/1/91 to 11/30/94.
22. Co-Investigator for NIH-NINDS grant # 1 RO1 NS 30678-01, "Comparison of Hemorrhagic and Ischemic Stroke Among Blacks and Whites," \$100,000 - Shannon Award.
23. Co-Investigator for NIH grant #RO1-NS28492, "International Study of Unruptured Intracranial Aneurysms," 1/1/92 - 12/31/96.
24. Co-Investigator for NIH-NINDS grant #1 RO1 NS 30678, "Comparison of Hemorrhagic and Ischemic Strokes Among Blacks and Whites," 4/1/93 - 4/31/98, \$1,207,044.
25. Principal Investigator for NIH-NINDS grant #NO1-NS-2-2374, "Phase II-B Randomized Controlled Study of Tissue Plasminogen Activator for Acute Ischemic Stroke - Extension," 1993-1995, proposed \$716,214.
26. Principal Investigator for Genetech-funded study,, "Emergency Management of Stroke Bridging Trial. 1994-1996, proposed
27. Co-Investigator for Glaxo Wellcome, Inc. funded study, GLYA2001, AA Multicenter, randomized, double-blind, placebo-controlled, ascending dose study to examine the safety and pharmacokinetics of in the treatment of patients with a clinical diagnosis of acute stroke, 1996 - 1997.
28. Principal Investigator for SmithKline-Beecham funded study AA 12-Week, Double-blind, Placebo-controlled Study to Assess Safety, Tolerability, Pharmacokinetics, and Effect on Platelet Aggregation of a Dose Range of when added to Aspirin in Patients with Myocardial Infarction, Unstable Angina, TIA, or Stroke (.....). @ 1997.
29. Co-Principal neurologist for NIH-NINDS grant R01NS383384-01, "Carotid Revascularization Endarterectomy, vs. Stent Trial (CREST), 12/1/98-11/30/03, \$23,970,238, .3 FTE.
30. Co-Principal neurologist for NIH-NINDS funded grant R01NS39987-01, "Siblings With Ischemic Stroke Study" (SWISS), 4/1/00-3/31/05, \$4,222,161, .08 FTE.
31. Robert E. and Clarice Smith Fellowship, 10/1/99-9/3/00, 0.2 FTE.
32. Principal Neurologist for NIH-NINDS "Combination approach to Lysis utilizing Eptifibatide And rt-PA: The CLEAR Stroke Trial" grant.

33. Member, External Advisory Committee, University of Cincinnati “Specialized Program of Translational Research in Acute Stroke (SPOTRIAS)” Grant.
34. Principal neurologist for NIH-NINDS funded grant NS44283-01J, “SPOTRIAS Study-Consortium with the University of Cincinnati (SPOTRIAS)”.

4/11/2003